SEQUENCE LISTING

	<11				lmund rgin		١.										
		<120> Maize Pathogenesis-Related Polynucleotide and Methods of Use															
	<130> 35718/214291																
	<150> US 60/195,801 <151> 2000-04-10 <160> 3 <170> FastSEQ for Windows Version 4.0																
	<210> 1 <211> 898 <212> DNA <213> Zea mays																
		1> C	DS 63).	(6	74)												
	<pre><400> 1 ctcgcacgca ctcgacgctc attcactgag ccatttactc agatcaccaa ctccagatct ca atg gcg cac tcg cgc agc cac cac cac ctc ctc ctg ctc ccc gcg Met Ala His Ser Arg Ser His His Leu Leu Leu Leu Pro Ala</pre>													gcg Ala	60 107		
	ccc Pro	atg Met	gcc Ala	acg Thr	gcg Ala 20	tgc Cys	ttg Leu	ctc Leu	ctc Leu	gcc Ala 25	acc Thr	ctc Leu	ctc Leu	gcg Ala	ctc Leu 30	tgc Cys	155
	gcc Ala	gcg Ala	ccg Pro	gcg Ala 35	ccg Pro	acc Thr	cac His	ggc Gly	gcg Ala 40	cgc Arg	gtc Val	ctc Leu	atg Met	ccg Pro 45	ggc Gly	ggc Gly	203
	gcg Ala	ggc Gly	gcg Ala 50	gtg Val	acc Thr	aag Lys	gcg Ala	cag Gln 55	cag Gln	ggt Gly	ggc Gly	acc Thr	ggc Gly 60	agc Ser	ggc Gly	agc Ser	251
	aac Asn	gcg Ala 65	acg Thr	gcg Ala	gac Asp	gag Glu	tac Tyr 70	ctg Leu	gcg Ala	ccg Pro	cac His	aac Asn 75	cag Gln	gcg Ala	cgc Arg	gcg Ala	299
	gcg Ala 80	gtg Val	ggc Gly	gtg Val	gcc Ala	ccg Pro 85	ctg Leu	cgg Arg	tgg Trp	aac Asn	gcg Ala 90	ggc Gly	ctg Leu	gct Ala	tcg Ser	gcg Ala 95	347
	gcc Ala	gcg Ala	gly aaa	acg Thr	gtg Val 100	gcg Ala	cag Gln	cag Gln	cgg Arg	cgg Arg 105	cag Gln	ggc Gly	Gly aaa	tgc Cys	gcg Ala 110	ttc Phe	395

тy		Val	. Gly 115	' Ala	ago Ser	ccc Pro	tac Tyr	ggc Gly 120	Ala	aac Asn	cag Gln	gly ggg	y tgg 7 Trp 125) Ala	agc Ser	443
ca	c cgc r Arg	gcg J Ala 130	Arg	ccc Pro	gcc Ala	gag Glu	gtg Val 135	Val	gcg Ala	ctg Leu	tgg Trp	gtg Val 140	. Ala	g gag i Glu	gly agg	491
Ar	g tac g Tyr 145	Tyr	acc Thr	cac His	gcc Ala	aac Asn 150	Asn	acg Thr	tgc Cys	gcc Ala	gcg Ala 155	Gly	r Arg	g cag g Gln	tgc Cys	539
gg: Gl: 160	c acg y Thr	tac Tyr	acg Thr	cag Gln	gtg Val 165	gtg Val	tgg Trp	cgc Arg	aac Asn	acc Thr 170	Ala	gag Glu	gto Val	ggg : ggg	tgc Cys 175	587
gcç Ala	g cag a Gln	gcc Ala	agc Ser	tgc Cys 180	gcc Ala	acg Thr	ggc Gly	gcc Ala	acg Thr 185	ctc Leu	acg Thr	ctc Leu	tgc Cys	ctg Leu 190	tac Tyr	635
aac Asr	c ccg 1 Pro	cac His	ggc Gly 195	aac Asn	gtg Val	cag Gln	ggc Gly	cag Gln 200	agc Ser	ccc Pro	tac Tyr	tag *	cta	gctg	agg	684
<pre>tct aaa <21 <21 <21</pre>	iccag	gtt g aaa a 03 RT	gttga aaaaa	tagti acaa	cc gg	gtcad	egga: ggtt1	a agg z ggt	gctg! tgta!	tttt	ata	atat	gat.	ccaa	gtaggt tggtgt taaaaa	804
	0> 2 Ala	His	Ser	Ara	Ser	His	Hig	Нie	I.e.11	T. 211	Т	-		7 7		
1				5					10				Dro		D	
			20				ьeu	Ala	10 Thr					15		
Met	Pro	~ ~	Pro	Thr				25	Thr	Leu	Leu	Ala	Leu	15 Cys	Ala	
Met Ala	Pro Ala	35			His	Gly Gln	Ala 40	25 Arg	Thr Val	Leu Leu	Leu Met Gly	Ala Pro	Leu 30 Gly	15 Cys Gly	Ala Ala	
Met Ala Gly Ala		Val	Thr	Lys Glu	His Ala Tyr	Gly Gln 55	Ala 40 Gln	25 Arg Gly	Thr Val Gly	Leu Leu Thr Asn	Leu Met Gly	Ala Pro 45 Ser	Leu 30 Gly	15 Cys Gly Ser	Ala Ala Asn Ala	
Met Ala Gly Ala 65	Ala 50	Val Ala	Thr Asp	Lys Glu Pro	His Ala Tyr 70	Gly Gln 55 Leu	Ala 40 Gln Ala	25 Arg Gly Pro Asn	Thr Val Gly His Ala	Leu Leu Thr Asn 75	Leu Met Gly 60 Gln	Ala Pro 45 Ser Ala	Leu 30 Gly Gly Arg	15 Cys Gly Ser Ala Ala	Ala Ala Asn Ala	
Met Ala Gly Ala 65 Val	Ala 50 Thr	Val Ala Val	Thr Asp Ala Val	Lys Glu Pro 85	His Ala Tyr 70 Leu	Gly Gln 55 Leu Arg	Ala 40 Gln Ala Trp	25 Arg Gly Pro Asn Arg	Thr Val Gly His Ala	Leu Leu Thr Asn 75 Gly	Leu Met Gly 60 Gln Leu	Ala Pro 45 Ser Ala Ala	Leu 30 Gly Gly Arg Ser	15 Cys Gly Ser Ala Ala	Ala Ala Asn Ala 80 Ala	
Met Ala Gly Ala 65 Val	Ala 50 Thr Gly	Val Ala Val Thr	Thr Asp Ala Val 100	Lys Glu Pro 85 Ala	His Ala Tyr 70 Leu Gln	Gly Gln 55 Leu Arg Gln Tyr	Ala 40 Gln Ala Trp Arg	25 Arg Gly Pro Asn Arg 105	Thr Val Gly His Ala 90 Gln	Leu Leu Thr Asn 75 Gly	Leu Met Gly 60 Gln Leu Gly	Ala Pro 45 Ser Ala Ala Cys Trp	Leu 30 Gly Gly Arg Ser	15 Cys Gly Ser Ala Ala 95 Phe	Ala Ala Asn Ala 80 Ala Ala	
Met Ala Gly Ala 65 Val Ala	Ala 50 Thr Gly	Val Ala Val Thr Gly 115	Thr Asp Ala Val 100 Ala	Lys Glu Pro 85 Ala Ser	His Ala Tyr 70 Leu Gln Pro	Gly Gln 55 Leu Arg Gln Tyr	Ala 40 Gln Ala Trp Arg Gly 120	25 Arg Gly Pro Asn Arg 105 Ala	Thr Val Gly His Ala 90 Gln Asn	Leu Leu Thr Asn 75 Gly Gly Gln Trp	Leu Met Gly 60 Gln Leu Gly Gly Val	Ala Pro 45 Ser Ala Ala Cys Trp 125	Leu 30 Gly Gly Arg Ser Ala 110 Ala	15 Cys Gly Ser Ala Ala 95 Phe	Ala Asn Ala 80 Ala Ala Ala Tyr	
Met Ala Gly Ala 65 Val Ala Asp	Ala 50 Thr Gly Gly Val	Val Ala Val Thr Gly 115 Arg	Thr Asp Ala Val 100 Ala Pro	Lys Glu Pro 85 Ala Ser Ala	His Ala Tyr 70 Leu Gln Pro	Gly Gln 55 Leu Arg Gln Tyr Val	Ala 40 Gln Ala Trp Arg Gly 120 Val	25 Arg Gly Pro Asn Arg 105 Ala	Thr Val Gly His Ala 90 Gln Asn Leu Ala	Leu Leu Thr Asn 75 Gly Gly Gln Trp	Leu Met Gly 60 Gln Leu Gly Gly Val 140	Ala Pro 45 Ser Ala Ala Cys Trp 125 Ala	Leu 30 Gly Gly Arg Ser Ala 110 Ala Glu	15 Cys Gly Ser Ala Ala 95 Phe Ser	Ala Asn Ala 80 Ala Ala Tyr	
		Ala	40				ьeu							15		

	Glr	a Ala	ı Sei	Cys	s Ala	Thr	Gly	Ala	Thr		ı Thr	Leu	Cys	Leu 190		Asn	
	Pro	His	Gl _y 195	/ Asr	ı Val	Gln	Gly	Gln 200	Ser		Туг	•		190			
	<21 <21	.0> 3 .1> 6 .2> D .3> Z	12 NA	nays													
		0> 1> C 2> (. (61	.2)												
		0 > 3															
	atg Met 1	gcg Ala	His	tcg Ser	cgc Arg 5	agc Ser	cac His	cac His	cac His	ctc Leu 10	Leu	ctg Leu	ctc Leu	ccc Pro	gcg Ala 15	ccc	48
	atg Met	gcc Ala	acg Thr	gcg Ala 20	tgc Cys	ttg Leu	ctc Leu	ctc Leu	gcc Ala 25	acc Thr	ctc Leu	ctc Leu	gcg Ala	ctc Leu 30	Cys	gcc Ala	96
	gcg Ala	ccg Pro	gcg Ala 35	ccg Pro	acc Thr	cac His	ggc Gly	gcg Ala 40	cgc Arg	gtc Val	ctc Leu	atg Met	ccg Pro 45	ggc Gly	ggc	gcg Ala	144
10000	ggc	gcg Ala 50	gtg Val	acc Thr	aag Lys	gcg Ala	cag Gln 55	cag Gln	ggt Gly	ggc Gly	acc Thr	ggc Gly 60	agc Ser	ggc Gly	agc Ser	aac Asn	192
	gcg Ala 65	acg Thr	gcg Ala	gac Asp	gag Glu	tac Tyr 70	ctg Leu	gcg Ala	ccg Pro	cac His	aac Asn 75	cag Gln	gcg Ala	cgc Arg	gcg Ala	gcg Ala 80	240
	gtg Val	ggc Gly	gtg Val	gcc Ala	ccg Pro 85	ctg Leu	cgg Arg	tgg Trp	aac Asn	gcg Ala 90	ggc Gly	ctg Leu	gct Ala	tcg Ser	gcg Ala 95	gcc Ala	288
	gcg Ala	ggg Gly	acg Thr	gtg Val 100	gcg Ala	cag Gln	cag Gln	cgg Arg	cgg Arg 105	cag Gln	ggc Gly	Gly aaa	tgc Cys	gcg Ala 110	ttc Phe	gcg Ala	336
	gac Asp	gtg Val	999 Gly 115	gcc Ala	agc Ser	ccc Pro	tac Tyr	ggc Gly 120	gcg Ala	aac Asn	cag Gln	Gly ggg	tgg Trp 125	gcg Ala	agc Ser	tac Tyr	384
	cgc Arg	gcg Ala 130	cgc Arg	ccc Pro	gcc Ala	gag Glu	gtg Val 135	gtg Val	gcg Ala	ctg Leu	tgg Trp	gtg Val 140	gcg Ala	gag Glu	gly aaa	cgg Arg	432
	tac Tyr 145	tac Tyr	acc Thr	cac His	gcc Ala	aac Asn 150	aac Asn	acg Thr	tgc Cys	gcc Ala	gcg Ala 155	Gly 999	cgg Arg	cag Gln	tgc Cys	ggc Gly 160	480
	acg Thr	tac Tyr	acg Thr	cag Gln	gtg Val	gtg Val	tgg Trp	cgc Arg	aac Asn	acc Thr	gcc Ala	gag Glu	gtc Val	ggg ggg	tgc Cys	gcg Ala	528

				165					170					175		
cag Gln	gcc Ala	agc Ser	tgc Cys 180	gcc Ala	acg Thr	ggc Gly	gcc Ala	acg Thr 185	ctc Leu	acg Thr	ctc Leu	tgc Cys	ctg Leu 190	tac Tyr	aac Asn	576
ccg Pro	cac His	ggc Gly 195	aac Asn	gtg Val	cag Gln	ggc Gly	cag Gln 200	agc Ser	ccc Pro	tac Tyr	tag *					612